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| (74) Agent | Hui-Gyu Park | (72) Inventor | Yeong-Su Kim |
| (71) Applicant | INTERCUBE CO., LTD. Won-Hui Gang | | |

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(54) TELEPHONE AND HANGUL INPUTTING METHOD USING IT

Abstract

Machine Translation

Human Translation

1 As to the phone in which the hangul input is possible, the present invention arranges the basic minimum bas consonant, the consonant combination use symbol and the vowel composite can Hohmann for expressing th rest consonant to each keypad of a phone and even when being more and more convenient than a preexistence, the hangul input is rapidly made and it plans a facility in an usage, a phone has. The consonar consisting of the consonant combination use symbol "~" of the consonant ("ㄱ", "ㄴ", "ㄹ", "ㅇ", "ㄷ", "ㄱ") basic in the present invention in a phone and 6 and the vowel combination mark " | ", " . ", " — " required for the vowe combination: "the consonant ("ㄷ", "ㄹ", "ㅂ", "ㅈ", "ㅊ", "ㅋ", "ㅌ", "ㅍ", "ㅎ") is the consonant combination us symbol it is done by a feature that it is arranged only the consonant which becomes of 4 the fundamental consonant arranged on a keypad does not have the hangul input using the above-described phone on the direct input and keypad" ~" and fundamental consonant ("ㄱ", "ㄴ", "ㄹ", "ㅇ", "ㄷ", "ㄱ") are assembled and it inputs. A vowel is done by a feature to input a vowel by the combination of the vowel combination mark (" | " " . ", " — ", " . ").

Representative Drawing(s)

Fig. 2

Description

• Brief explanation of the drawing

- 2 Fig. 1 is an example diagram of the conventional phone keypad
- 3 Fig. 2 is an example diagram of the present invention is the application phone keypad

▸ Details of the Invention

▸ Purpose of the Invention

The Technical Field to which the Invention Belongs and the Prior Art in that Filed

- 4 The present invention relates to a phone, and the phone in which the hangul input can be more rapidly made provided by the configuration of a vowel and the juxtaposed consonant being minimized in especially, the key phone with a number and the structure of a keypad being simplified and improving so that these are more by seen, the phone has.
- 5 Moreover, in the present invention, by using for a several consonants and the consonant combination use symbol required for the consonant combination, and the vowel combination only the vowel combination use symbol 1 necessary is most basic as to a consonant and the necessary vowel of 24, becomes in the existing Hangul combination the phone in which the rest letter can be combined and the input method of the Korean alphabet phone are provided, the phone have.
- 6 Particularly, the present invention can be usefully used for the mobile unit in which it is necessary to have the hangul input including PDA etc. besides a phone.
- 7 Fig. 1 shows the configuration of the conventional phone keypad in which the hangul input is possible.
- 8 Conventionally, the letter is assembled through the method for altogether thoroughly arranging necessary and Hangul (24 consonants and vowel) to the hangul input on the phone keypad and selecting the Hangul in which wants each out on each keypad.
- 9 However, in a phone, because of being altogether comprised of button (" # ", and "*" and Arabic numerals 0~9 dozen, 2 or more consonants or a vowel is together juxtaposed in one button and it is unable to be conventional instinctive.
- 10 Moreover, when inputting the word mixing Hangul and desired, the word had the button in which the corresponding consonant or the vowel was indicated and the disadvantage it selected the necessary letter while going side by side with the selection key and use was complicated, of noted being moreover rapidly made with input rate.
- 11 Moreover, in the vowel input method, it repetitively had to press with the several occasions that it had to be troublesome.

Technical challenges of the Invention

- 12 As to the present invention, in order to solve the problem as described above, it has the shape of the location the shape of the principles superior angle consonant of Hangul is pronounced but it works out and it arranges basic minimum basic consonant, the consonant combination use symbol and the vowel composite can express the rest consonant to each keypad of a phone and even when being more and more convenient than preexistence, the hangul input is rapidly made and it plans a facility in an usage, the shape has the purpose.
- 13 The present invention for the above-described object achieving is characterized that a consonant and the necessary

vowel are juxtaposed in the hangul input, it is in the keypad of a phone with a number. The Hangul of 10 a, it altogether comprised of the consonant table operational on the phone keypad for a consonant and vowel exp 6 with the vowel of 4 and a consonant and vowel are not overlapped in each pad and one sick is juxtaposed.

- 14 Provided is a configuration, in which the Hangul which is input to a keypad is comprised of the necessary consonant mark ("ㄱ", "ㄴ", "ㄷ", "ㄹ") in 6 consonants (the consonant "ㄱ", "ㄴ", "ㄷ", "ㄹ", "ㅇ" and the basic consonant combination use symbol "~") and 4 vowels (vowel combination).
- 15 The present invention is arranged only the necessary vowel combination mark ("ㅏ", "ㅑ", "ㅓ", "ㅕ") and the fundamental consonant arranged on a keypad uses the keypad of the correspond consonant for the minimum consonant ("ㄱ", "ㄴ", "ㄷ", "ㄹ", "ㅇ"), required for the hangul input the consonant combination use symbol ("ㅗ", "ㅛ", "ㅜ", "ㅠ", "ㅡ", "ㅣ") by the combination of the basic consonant ("ㄱ", "ㄴ", "ㄷ", "ㄹ", "ㅇ") on the consonant combination use symbol ("~") and keypad. And as to a vowel, the feature is in the method for inputting a vowel combination of the vowel combination mark ("ㅏ", "ㅑ", "ㅓ", "ㅕ").
- 16 More concretely, it is the same as that of the next time the example drawing which is below, the configuration present invention and functional effect etc. attached.

▶ Structure & Operation of the Invention

- 17 Fig. 2 shows the structure where a consonant and vowel are arranged in the keypad of the phone in which the invention is applied to.
- 18 The basic consonant "ㄱ", "ㄴ", "ㄷ", "ㄹ", "ㅇ" which is the special symbol (41), the present invention need for numeric button of "*" (42) 10 rests as to the numeric keypad (30) of a phone for the consonant input and the combination mark "ㅏ", "ㅑ", "ㅓ", "ㅕ" required for the consonant (10) and the vowel combination consisting of the consonant combination use symbol "~" of 6: it is comprised of the organized vowel (20) of 4.
- 19 It is preferable that the consonant (10) determines the arbitrary order "ㄱ". It is successively "ㄴ", "ㄷ", "ㄹ", "ㅇ" rest consonant combination use symbol "~" arranged. The consonant combination use symbol "~" arranges to positioned in central part ("2" numeric button between "3" button ("ㄴ") and "1" button ("ㄱ") it does based on attached view) of the fundamental consonant of 5 in consideration of the translation distance of the finger.
- 20 It is successively "ㅇ" arranged as to the numeric button of the phone keypad (30) in the button of the number "1", and the button of the number "2" in the consonant combination use symbol "~", and the button of the number "3" in "ㄴ", and the button of the number "4" in "ㄷ", and the button of the number "5" in "ㄹ", and the button of the number "6" if it tries this way.
- 21 Therefore, as to the fundamental consonant arranged on a keypad, by using the keypad of the correspond consonant related by being not in the direct input and keypad, it inputs the consonant ("ㄷ", "ㄹ", "ㅌ", "ㄺ", "ㅍ", "ㅑ", "ㅓ", "ㅕ") by the combination of the basic consonant ("ㄱ", "ㄴ", "ㄷ", "ㄹ", "ㅇ") on the consonant combination use symbol ("~") and keypad.
- 22 And "ㅏ", "ㅑ", and "ㅡ" as described above, a vowel determines the arbitrary order "ㅏ": it arranges to a net.
- 23 That is, it means "ㅏ", the horizontal line and "ㅑ" of "ㅑ", and the vertical line of "ㅓ" in the second button it arranges the symbol "ㅑ" meaning "ㅑ", the horizontal line and "ㅕ" of "ㅕ", and the vertical line of "ㅓ" the first button: it arranges to the order of "in the third button it is arranged" "ㅑ", "ㅕ", "ㅓ", "ㅑ", "ㅕ", "ㅓ" | "the vertical line is meant" | "finally, it arranges" "ㅑ", "ㅕ", "ㅓ", "ㅑ", "ㅕ", "ㅓ" — "the horizontal line is meant" —.

- 24 "*" among the button which is the phone keypad hurt if it tries this way, and "#" the rest button, that is, "*" and positioned in the bottom side button, and "#" the rest button, that is, "] " in the button of the number "7", "." in button of the number "8", "—" in the button of the number "9", and the button of the number "0": it is successively arranged with " this.
- 25 Embodiment 1.
- 26 The consonant positioned on a keypad selects the correspond consonant and it inputs and it inputs the Hangul assemblies and desiring of the fundamental consonant on the consonant combination use sign button "~" and the consonant doing not have in a keypad.
- 27 For example, after when to inputting "ㄷ", firstly the consonant combination use symbol "~" being selected and inputting, "ㄷ" is again inputted, or "~" is inputted in other words after inputting "ㄷ" on the contrary.
- 28 If it tries this way, it recognizes the word consisting of "ㄷ" and "~" as "ㄷ" and "~" and "ㄷ" drawing output in a meter of a phone in a screen.
- 29 Concretely the above-described input method is explained than the table 1 and table 2.
- 30 Embodiment 2.
- 31 The input of a vowel is " | ", ".", "—": four kinds button is inputted through the method for assembling.
- 32 For example, "ㅏ" tries to be inputted: it recognizes as "the indicator button is once pressed and it inputs" — " meter is this it tries this way a button is found and it again inputs" ㅏ " and it outputs to a screen.
- 33 Concretely the above-described input method is explained than the table 3.

▶ Effects of the Invention

- 34 As illustrated in the above, by comprising a vowel with the consonant adding the consonant combination use to each keypad inscribing the number of a phone to minimum 5 fundamental consonants and vowel combination symbol 4 of 6 and a consonant and the vowel arranged for the hangul input on a keypad not being overlapped by one arranging it is instinctive. It can be convenient and it be rapidly made and it plans a convenience in an

35 Table 1.

Table 1

| Collating sequence | The generated character | The button example actually pressed down |
|--------------------|-------------------------|---|
| ㄱ | ㄱ | The first a button |
| ㄴ | ㄴ | The third a button |
| ~ ㄴ | ㄴ | The second a button the + the third button |
| ~ ~ ~ | ㄴ | The second a button the + the second button + the second button |

| | | |
|-------|---|--|
| □ | □ | The fifth a button |
| ~ □ | ㅓ | The second a button the + 5 burn button |
| ㅓ | ㅓ | The fourth a button |
| ○ | ○ | The sixth a button |
| ~ ㅓ | ㅔ | The second a button the + 4 burn button |
| ~ ~ ㅓ | ㅕ | The second a button the + the second button + 4 burn button |
| ~ ㄱ | ㅋ | The second a button the + the first button |
| ~ ~ ㄴ | ㄷ | The second a button the + the second button + the third button |
| ~ ~ □ | ㅖ | The second a button the + the second button + 5 burn button |
| ~ ○ | ㅗ | The second a button the + 6 burn button |
| ~ ~ ○ | ㅛ | The second a button the + the second button + 6 burn button |

36 Table 2.

Table 2

| Collating sequence | The generated character | The button example actually pressed down |
|--------------------|-------------------------|---|
| ㄱ | ㄱ | The first a button |
| ㄴ | ㄴ | The third a button |
| ㄴ ~ | ㄷ | The third a button the + the second button |
| ~ ~ ~ | ㄹ | The second a button the + the second button + the second button |
| □ | □ | The fifth a button |
| □ ~ | ㅓ | The fifth a button the + the second button |
| ㅓ | ㅓ | The fourth a button |
| ○ | ○ | The sixth a button |
| ㅓ ~ | ㅔ | The fourth a button the + the second button |
| ㅓ ~ ~ | ㅕ | The fourth a button the + the second button + the second button |
| ㄱ ~ | ㅋ | The first a button the + the second button |
| ㄴ ~ ~ | ㄷ | The third a button the + the second button + the second button |
| □ ~ ~ | ㅖ | The fifth a button the + the second button + the second button |
| ○ ~ | ㅗ | The sixth a button the + the second button |
| ○ ~ ~ | ㅛ | The sixth a button the + the second button + the second button |

37 Table 3.

Table 3

| Collating sequence | The generated character | The button example actually pressed down |
|--------------------|-------------------------|--|
| . | ㅏ | The seventh a button the + 8 burn button |
| : | ㅑ | The seventh a button the + 0 burn button |
| . | ㅓ | The eighth a button the + 7 burn button |
| : | ㅕ | 0 burn button + 7 burn button |
| — | ㅗ | The eighth a button the + 9 burn button |
| : | ㅛ | 0 burn button + 9 burn button |
| — . | ㅜ | The ninth a button the + 8 burn button |
| — : | ㅠ | The ninth a button the + 0 burn button |
| — | ㅡ | The ninth a button |
| | | The seventh a button |

Scope of Claims

Claim[1] :

38 The consonant "ㄱ", "ㄴ", "ㄹ", "ㅇ", "ㄷ" and the consonant combination use symbol "~", basic as to the phon arranging a consonant and vowel and inputs Hangul to the keypad of a phone through these combinations in phone keypad and the vowel combination mark "ㅣ", ":", "—" required for the vowel combination: a phone who placed.

Claim[2] :

41 "ㄱ", "ㄴ", "ㄹ", "ㅇ", "ㄷ", "~", "ㅣ", ":", "—" in the numeric button of "*" 10 rests it is the special symbol as to in a phone "#": a phone wherein one sick is arranged without " Lee Sang Ho being overlapped.

Claim[3] :

42 "ㅣ" in the button of "7", "·" in the button of "8", "—" in the button of "9", and the button of "0" "ㅇ" is arranged

button of the number "1" of a phone as to claim 2 in "ㄱ", and the button of "2" in the consonant combination use symbol "~", and the button of "3" in "ㄴ", and the button of "4" in "ㄷ", and the button of "5" in "ㄹ", and the button of "6": a phone wherein it is placed with " " this.

Claim[4] :

- 43 The phone inputting Hangul by the combination of a vowel and consonant that is juxtaposed in the keypad of wherein the minimum basic consonant ("ㄱ", "ㄴ", "ㄷ", "ㄹ", "ㅇ"), needing for the keypad of a phone for the input the consonant combination use symbol ("~") and the fundamental consonant which is arranged to the vowel combination only the necessary vowel combination mark ("ㅣ", "·", "ㅡ", "ㅜ") and is arranged on a keypad as: the basic consonant ("ㄱ", "ㄴ", "ㄷ", "ㄹ", "ㅇ") on the consonant combination use symbol ("~") and keypad a inputs the consonant ("ㄷ", "ㄹ", "ㅂ", "ㅅ", "ㅈ", "ㅊ", "ㅋ", "ㅌ", "ㅍ", "ㅎ") by using the keypad of the corresponding related by being not in the direct input and keypad; and it assembles the vowel combination mark ("ㅣ", "·", "ㅡ", "ㅜ") and it inputs a vowel.

Claim[5] :

- 45 The input method of the Korean alphabet using a phone of claim 4, wherein the consonant combination using fundamental consonant ("ㄱ", "ㄴ", "ㄷ", "ㄹ", "ㅇ") on the consonant combination use symbol "~" and keypad of the configuration of the table 1.

Claim[6] :

- 46 The input method of the Korean alphabet using a phone of claim 4, wherein the consonant combination using fundamental consonant ("ㄱ", "ㄴ", "ㄷ", "ㄹ", "ㅇ") on the consonant combination use symbol "~" and keypad of the configuration of the table 2.

Claim[7] :

- 47 The vowel combination mark "ㅣ", "·", "ㅡ" as to claim 4: the input method of the Korean alphabet using a phone wherein the vowel combination using is made of the configuration of the table 3.

Claim[8] :

- 48 The input method of the Korean alphabet using a phone of claim 4, wherein the hangul input is made of the combination of the table 1 and table 3 or the table 2 and table 3.

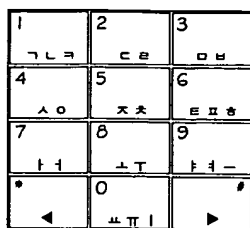


Fig. 1

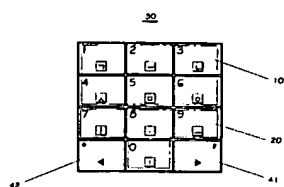


Fig. 2